

UNDERWRITERS LABORATORIES INC. CERTIFICATION REQUIREMENT DECISION

This Certification Requirement Decision is prepared by UL LLC. It is normative for the applicable UL Product Certification Program(s); however, it is currently not part of the UL Standard(s) referenced below.

Product Category (CCN): AWSX, DWTT, EBGV, FKA V, FKA V7, ILNR, DXAS, PJOX, PPYT, PXJV, QCRV, QPOZ, TYZX, UBWE

Standard Number: UL 514B

Standard Title: Standard for Conduit, Tubing, and Cable Fittings

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Section / Paragraph Reference: 1.7, 3.13, 4.5, 7.11.2, 7.11.3, 8.1.7, 8.40 and Table 19

Subject: Male Threaded Fittings provided with a LOCKNUT and also intended for securement to: • Enclosures with threaded entries, or • Fittings with internal female threads (e.g., HUBs, conduit bodies, couplings).

DECISION:

1.7 In addition to covering male threaded FITTINGS for use with cable and conduit, these requirements also cover male threaded FITTINGS for use with or without a locknut and intended for securement to enclosures:

- a) having threaded openings or knockouts, or
- b) fittings with internal female threads (e.g., HUBs, conduit bodies, couplings).

4.5 In addition to complying with requirements specific to its intended use with conduit, cable, and tubing, a male threaded fitting shall also comply with performance, environmental and marking requirements for its connection to any of the following additional uses as identified by the manufacturer:

- a) an enclosure with threaded knockouts,
- b) an enclosure with removable knockouts, or
- c) fittings with internal female threads (e.g. HUBS, conduit bodies, couplings).

7.11 FITTINGS for threaded HUBS

7.11.2 Marking on Fitting- A FITTING provided with a LOCKNUT and intended for securement to boxes with threaded entries or fittings with internal female threads (e.g., HUBs, conduit bodies, couplings) shall be marked to identify its' type of external threads, such as NPS, NPT, metric, "Straight, "S", Tapered, T" "Fine", "Course" or with equivalent wording.

7.11.3 Marking on Carton- A FITTING provided with a LOCKNUT and additionally evaluated for securement to boxes with threaded entries or fittings with internal female threads (e.g., HUBs, conduit bodies, couplings) shall have a marking on the smallest unit shipping carton "For securement to a _____ + _____ only" or with equivalent wording.

+ Blank to be filled in with the type of internal thread: "NPT", "NPS" "metric", "Straight" "Tapered" or "Straight and Tapered", or equivalent. Type of thread shall be in accordance with NMX-J-554-ANCE, ANSI/ASME B1.20, or ANSI/ASME B1.16M.

8.1.7 A FITTING provided with a LOCKNUT and also intended for securement to enclosures with threaded entries or fittings with internal female threads (e.g., HUBs, conduit bodies, couplings) shall comply with:

- a) the applicable requirements for that fitting when assembled to the intended conduit, cable or tubing, as specified in Clause 8.1.5, and
- b) the applicable performance and environmental requirements for that fitting when assembled to the threaded entry identified by the manufacturer. See Clauses 4.5, 7.11.2, 7.11.3 and 8.40.1

8.40 Tests on Male Threaded Fittings provided with a LOCKNUT and also intended for securement to enclosures with threaded entries or fittings with internal female threads (e.g., HUBs, conduit bodies, couplings)

8.40.1 Male threaded fittings shall:

- a) comply with all applicable requirements for securing conduit, cable, or tubing to an enclosure, box, raceway system, or another FITTING with the locknut as part of the male threaded fitting, and,
- b) comply with the applicable requirements associated with that fitting's performance and usage claims when assembling the secured conduit cable or tubing to one or more of the following assemblies based on the intended use as specified by the manufacturer:

- 1) an enclosure with threaded knockouts,
- 2) an enclosure with removable knockouts,
- 3) fittings with internal female threads (e.g. HUBs, conduit bodies, couplings).

8.40.2 Six samples of each trade size of a male threaded fitting when assembled to any of the products identified in 8.40.1 (b1), (b2) or (b3) shall comply with:

- a) assembly test, Clause 8.11.3, followed by,
- b) resistance test, Clause 8.11.4, followed by,
- c) pull test, Clause 8.11.7.

The same samples shall be used throughout the test sequence.

8.40.3 Three samples of each trade size of a male threaded fitting when assembled to any of the products identified in 8.40.1 (b1), (b2) or (b3) shall comply with the Current Test Clause 8.10.

8.40.4 A male threaded fitting when assembled to any of the products identified in 8.40.1 (b1), (b2) or (b3) intended for use in wet locations and marked for use in wet locations shall comply with the requirements in Clause 8.7. See Clauses 7.1.5, 7.3.2, and Table 19.

8.40.5 A FITTING that has tapered external threads, provided with a locknut and is intended for assembly threaded inlets as identified in 8.40.1 (b1), (b2) or (b3) does not need to be subjected to the requirements of 8.40.2, 8.40.3 and 8.40.3 if:

- a) it is provided with tapered threads having both thread form and thread length complying with NMX-J-554-ANCE or ANSI/ASME B1.20, and,